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| A. | CTTATCGATACCGTCGAA | AGCATTTTTTCACT | | TGTCCAAACTCATC. |
|-----------|--------------------|-------------------------|----------------------------|-----------------|
| | ATGTATCTTATCATGTC | (Seq ID NO:1) | Cleavage site | |
| В. | | AAUAAA ++++++ | " GCA | |
| C. | | | ■GCAaaaaaaaaaaaaaaaaaaaaaa | (Seq ID NO:18) |

+ Upstream and downstream cleavage-polyadenylation elements



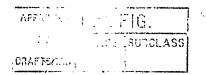
| ▶ ITR | | | | | | |
|------------------------|------------------------|------------------------|-----------------------|--------------------------|--------------|-------|
| CATCATCAAT | AATATACCTT | ATTTTGGATT | GAAGCCAATA | TGATAATGAG | GGGGTGGAGT | 60 |
| TTGTGACGTG | GCGCGGGGCG | TGGGAACGGG | ITR ◀ GCGGGTGACG | | GCGGAAGTGT | 120 |
| GATGTTGCAA | GTGTGGCGGA →Ψ | ACACATGTAA | | P3 DNA BS TGGCAAAAGT | GAC G TTTTTG | 180 |
| GTGTGCGCCG | GTGTACACAG | GAAGTGACAA | TTTTCGCGCG | GTTTTAGGCG | GATGTTGTAG | 240 |
| TAAATTTG GG | CGTAACCGA G | TAAGATTTGG ++++++++ | CCATTTTCGC XXXXXXX | | AATAAGAGGA | 300 |
| AGTGAAATCT | GAATAATTTT ++++++++ | GTGTTACTCA + | TAGCGCGTAA ++++ | TATTTG TCTA +++++ | GGGCCGCGCG | 360 |
| GACTTTGACC ++++++++ | GTTTACGTGG | AGACTCGCCC | AGGTGTTTTT | CTCAGGTGTT Ela TA | TTC CGC GTTC | 420 |
| CGGGTCAAAG | TTGGCGTTTT +1.► | ATTATTATAG | TCAGCTGACG | TGTAGTGTAT | | G 480 |
| TGAGTTCCTC | AAGAGGCCAC | TCTTGAGTGC | CAGCGAGTAG | AGTTTTCTCC | TCC GAG CCGC | 540 |
| TCCGACACCG | ♥ GGACTGAAA A | TGAGACATAT | TATCTGCCAC | GGAGGTGTTA | TTACCGAAGA | 600 |
| Enhancer of | elements 🔻 | 🗸 🔻 dl 103-551 | Ar6 | | | |
| X E2F-motif | . 7 | √ √ dl 189-551 | | (SEQ ID N | O:2) | |
| + Packaging | elements | dl 357-551 | Ar5 | | | |





FIGURE 3A

| 1 | +ITRITR |
|-----|---|
| 61 | TTGTGACGTGGCGCGGGGCGTGGGAACGGGGCGGGTGACGTAGGGCGCGATCAAGCTTAT ++ + |
| 121 | CGATACCGTCGAAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATC |
| 181 | ACAAATTTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTC |
| 241 | ATCAATGTATCTTATCATGTCTGGATCCGCGCCGCTAGCGATCATCCGGACAAAGCCTGC |
| 301 | GCGCGCCCCGCCATTGGCCGTACCGCCCCGCGCCGCCCCATCTCGCCCCTCG |
| 361 | CCGCCGGGTCCGGCGCTTAAAGCCAATAGGAACCGCCGCCGTTGTTCCCGTCACGGCCG |
| 421 | GGGCAGCCAATTGTGGCGCGCTCGGCGGCTCGTGGCTCTTTCGCGGCAAAAAGGATTTG |
| 481 | GCGCGTAAAAGTGGCCGGGACTTTGCAGGCAGCGGCGGCGGGGGGGG |
| 541 | CCCTCGATGATATCAGATCATCGGATCCCGGTCGACTGAAAATGAGACATATTATCTGCC ++ |
| 601 | ACGGAGGTGTTATTACCGAAGAAATGGCCGCCAGTCTTTTGGACCAGCTGATCGAAGAGG |
| 661 | TACTGGCTGATAATCTTCCACCTCCTAGCCATTTTGAACCACCTACCCTTCACGAACTGT |
| 721 | ATGATTTAGACGTGACGGCCCCCGAAGATCCCAACGAGGAGGCGGTTTCGCAGATTTTTC |
| 781 | CCGACTCTGTAATGTTGGCGGTGCAGGAAGGGATTGACTTACTCACTTTTCCGCCGGCGC |
| 841 | CCGGTTCTCCGGAGCCGCCTCACCTTTCCCGGCAGCCCGAGCAGCCGGAGCAGAGAGCCT |
| 901 | TGGGTCCGGTTTCTATGCCAAACCTTGTACCGGAGGTGATCGATC |



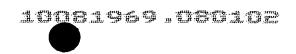


FIGURE 3B

| 961 | CTGGCTTTCCACCCAGTGACGACGAGGATGAAGAGGGTGAGGAGTTTGTGTTAGATTATG |
|------|--|
| | Ela gene |
| L021 | TGGAGCACCCCGGGCACGGTTGCAGGTCTTGTCATTATCACCGGAGGAATACGGGGGACC |
| | na gene |
| 1081 | CAGATATTATGTGTTCGCTTTGCTATATGAGGACCTGTGGCATGTTTGTCTACAGTAAGT |
| L141 | GAAAATTATGGGCAGTGGTGATAGAGTGGTGGTTTGGTGTGGTAATTTTTTTT |
| L201 | TTTTACAGTTTTGTGGTTTAAAGAATTTTGTATTGTGATTTTTTTAAAAGGTCCTGTGTC |
| 1261 | TGAACCTGAGCCTGAGCCCGAGCCAGAACCGGAGCCTGCAAGACCTACCCGCCGTCCTAA |
| 1321 | AATGGCGCCTGCTATCCTGAGACGCCCGACATCACCTGTGTCTAGAGAATGCAATAGTAG |
| L381 | TACGGATAGCTGTGACTCCGGTCCTTCTAACACACCTCCTGAGATACACCCGGTGGTCCC |
| L441 | GCTGTGCCCCATTAAACCAGTTGCCGTGAGAGTTGGTGGGCGTCGCCAGGCTGTGGAATG |
| L501 | TATCGAGGACTTGCTTAACGAGCCTGGGCAACCTTTGGACTTGAGCTGTAAACGCCCCAG |
| L561 | GCCATAAGGTGTAAACCTGTGATTGCGTGTGTGTTAACGCCTTTGTTTG |
| L621 | TGATGTAAGTTTAATAAAGGGTGAGATAATGTTTAACTTGCATGGCGTGTTAAATGGGGC |
| 1681 | GGGGCTTAAAGGGTATATAATGCGCCGTGGGCTAATCTTGGTTACATCTGACCTCATGGA |
| L741 | GGCTTGGGAGTGTTTGGAAGATTTTTCTGCTGTGCGTAACTTGCTGGAACAGAGCTCTAA |
| L801 | CA |

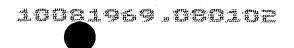




FIGURE 3C

| 33881 AACCTACGCCCAGAAACGAAAGCCAAAAAACCCACAACTTCCTCAAATCGTCACTTCCGT |
|--|
| 33941 TTTCCCACGTTACGTCACTTCCCATT <u>TTAATTAA</u> GAATTCTACAATTCCCAACACATACA |
| 34001 AGTTACTCCGCCCTAAAACCCTGGGCGAGTCTCCACGTAAACGGTCAAAGTCCCCGCGGG +-packaging signal |
| 34061 CCTAGACAAATATTACGCGCTATGAGTAACACAAAATTATTCAGATTTCACTTCCTCTTA |
| 34121 TTCAGTTTTCCCGCGAAAATGGCCAAATCTTACTCGGTTACGCCCAAATTTACTACAACA |
| 34181 TCCGCCTAAAACCGCGCGAAAATTGTCACTTCCTGTGTACACCGGCGCACACCAAAAACC |
| 34241 TCACTTTTGCCACATCCGTCGCTTACATGTGTTCCGCCACACTTGCAACATCACACTTCC |
| 34301 GCCACACTACGTCACCCGCCCCGTTCCCACGCCCCGCGCCACGTCACAAACTCCACG |
| 34361 CCCTCATTATCATATTGGCTTCAATCCAAAATAAGGTATATTATTGATGATG |





| 1 | +ITRITR |
|-----|---|
| 61. | TTGTGACGTGGCGCGGGGCGGGAACGGGGCGGGGGGGGGG |
| | ATCGGATCCCGGTCGACTGAAAATGAGACATATTATCTGCCACGGAGGTGTTATTACCGA |
| | AGAAATGGCCGCCAGTCTTTTGGACCAGCTGATCGAAGAGGTACTGGCTGATAATCTTCC |
| | ACCTCCTAGCCATTTTGAACCACCTACCCTTCACGAACTGTATGATTTAGACGTGACGGC |
| | CCCCGAAGATCCCAACGAGGAGGCGGTTTCGCAGATTTTTCCCGACTCTGTAATGTTGGC |
| | GGTGCAGGAAGGGATTGACTTACTCACTTTTCCGCCGGCGCCCCGGTTCTCCGGAGCCGCC |
| | TCACCTTTCCCGGCAGCCGAGCAGCCGGAGCAGAGAGCCTTGGGTCCGGTTTCTATGCC |
| | AAACCTTGTACCGGAGGTGATCGATCTTACCTGCCACGAGGCTGGCT |
| 541 | CGACGAGGATGAAGAGGGTGAGGAGTTTGTGTTAGATTATGTGGAGCACCCCGGGCACGG |
| | TTGCAGGTCTTGTCATTATCACCGGAGGAATACGGGGGACCCAGATATTATGTGTTCGCT |





| 1 | CATCATCAATAATATACCTTATTTTGGATTGAAGCCAATATGATAATGAGGGGGTGGAGT + |
|-----|---|
| 61 | TTGTGACGTGGCGCGGGGCGGGAACGGGGGGGGGGGGGG |
| 121 | CGATACCGTCGAAACTTGTTTATTGCAGCTTATAATGGTTACAAATAAAGCAATAGCATC |
| 181 | ACAAATTTCACAAATAAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGTCCAAACTC |
| | ATCAATGTATCTTATCATGTCTGGATCCGCGCCGCTAGCGATATCGGATCCCGGTCGACT |
| | GAAAATGAGACATATTATCTGCCACGGAGGTGTTATTACCGAAGAAATGGCCGCCAGTCT |
| | TTTGGACCAGCTGATCGAAGAGGTACTGGCTGATAATCTTCCACCTCCTAGCCATTTTGA |
| 421 | ACCACCTACCCTTCACGAACTGTATGATTTAGACGTGACGGCCCCCGAAGATCCCAACGA |
| 481 | GGAGGCGGTTTCGCAGATTTTTCCCGACTCTGTAATGTTGGCGGTGCAGGAAGGGATTGA |
| 541 | CTTACTCACTTTTCCGCCGGCGCCCCGGTTCTCCGGAGCCGCCTCACCTTTCCCGGCAGCC |
| 601 | CGAGCAGCCGGAGCAGAGAGCCTTGGGTCCGGTTTCTATGCCAAACCTTGTACCGGAGGT |
| | |



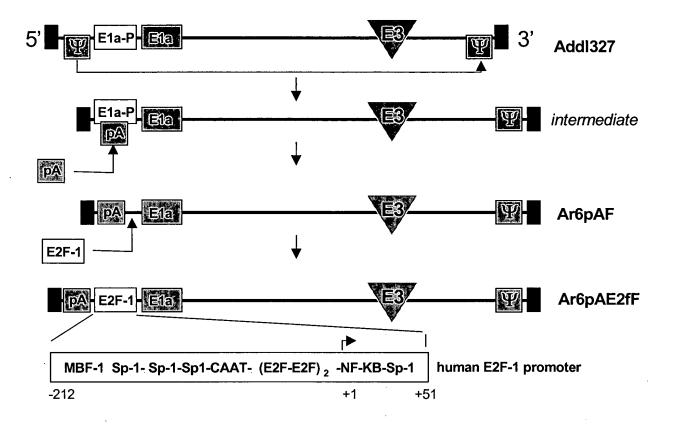


FIGURE 6



Fig. 7 Body weight change

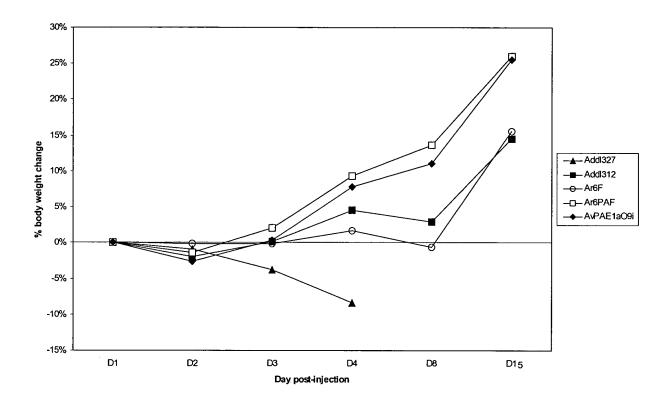




Fig. 8 Minimizing nonspecific transactivation of E1a gene

Backbones generated:

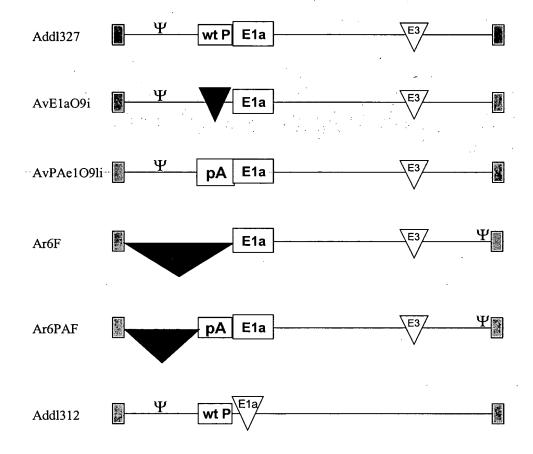
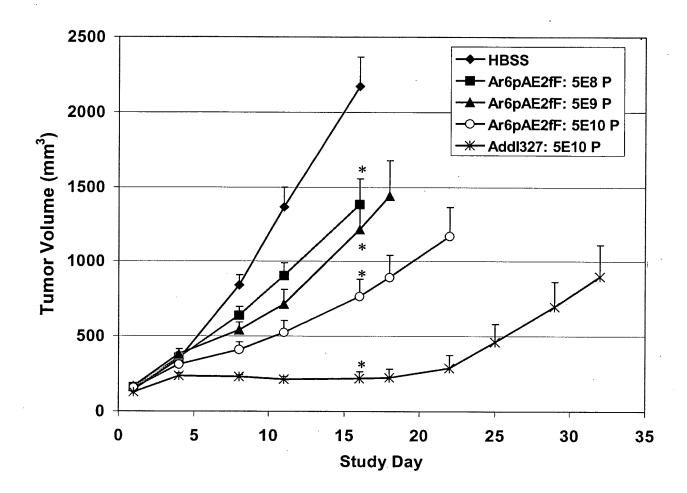
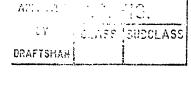


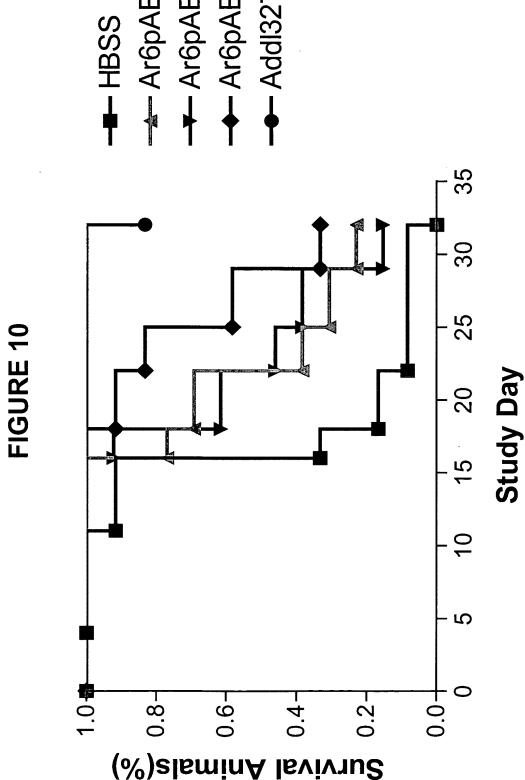


Figure 9. Mean H460 tumor volume

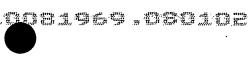








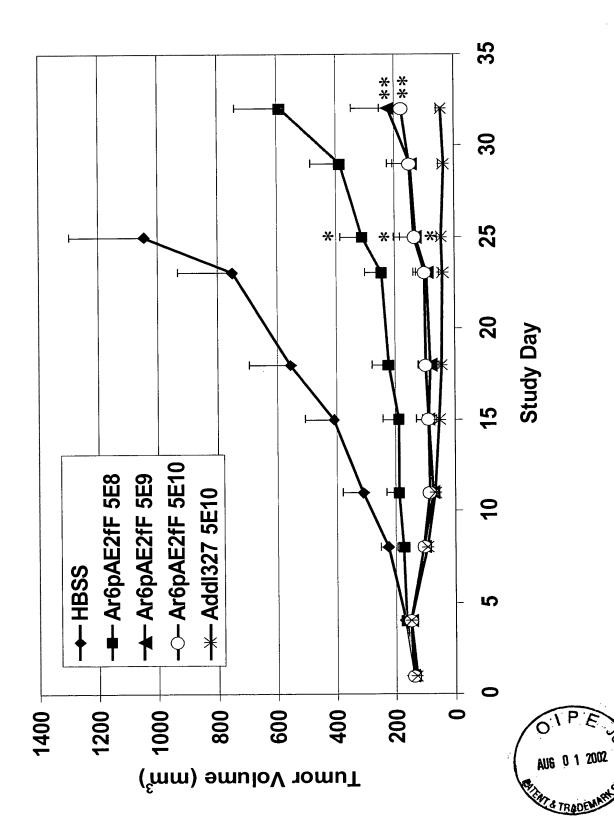




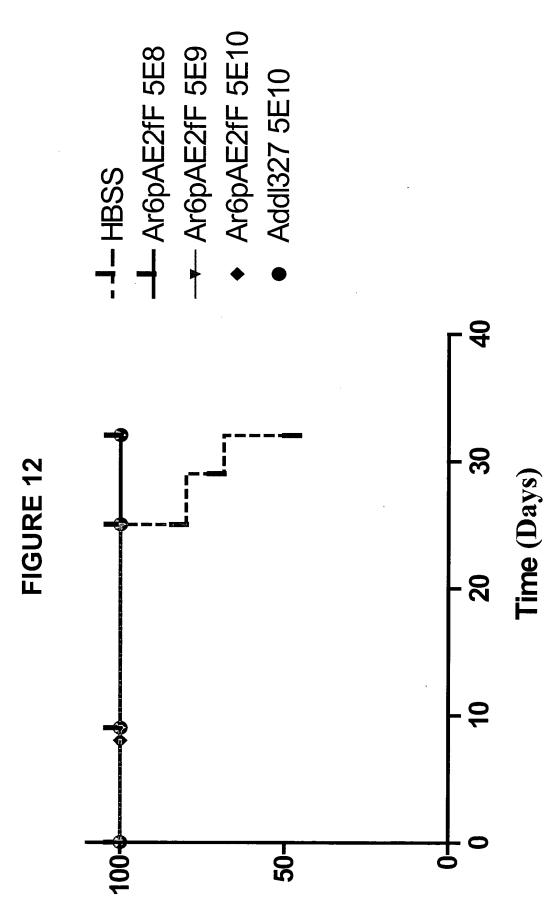
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FIGURE 11



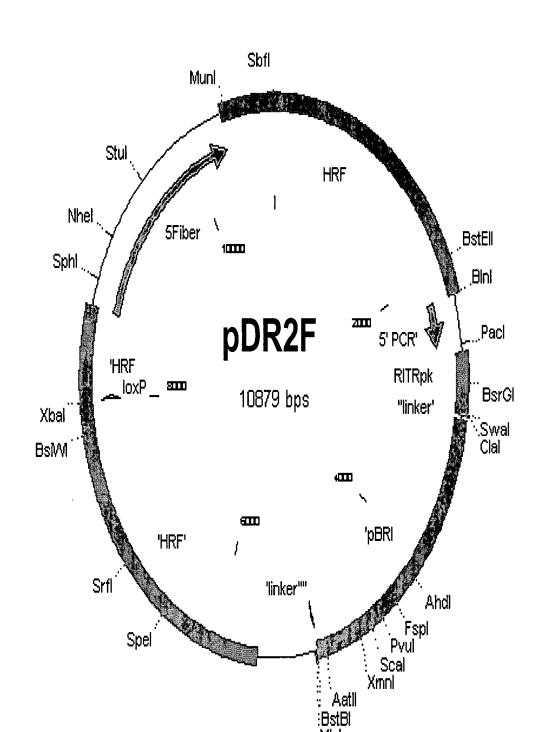
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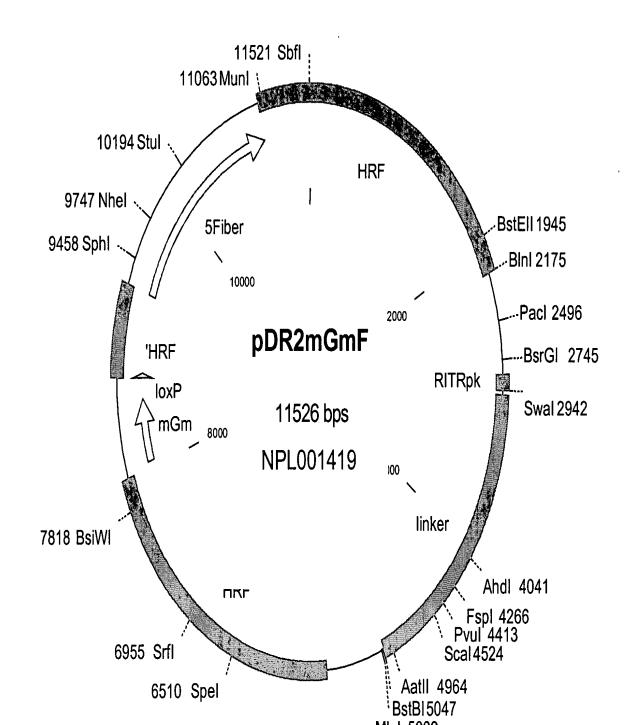


HERCENT SULVIVA



| AL PROVED | 0.3. | FIG. |
|-----------|-------|----------|
| ۵Y | CLASS | SUBCLASS |
| DRAFTSHAH | | |



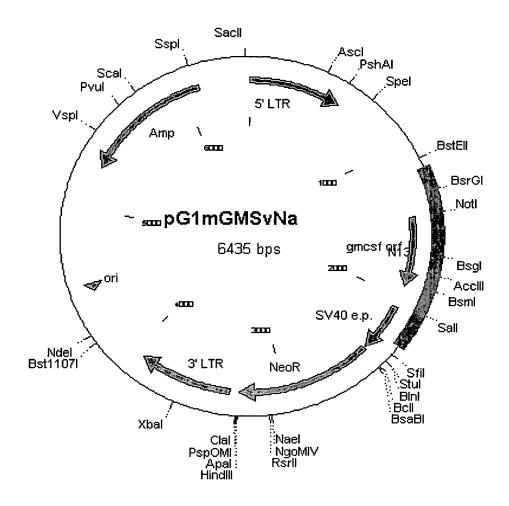


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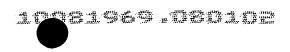
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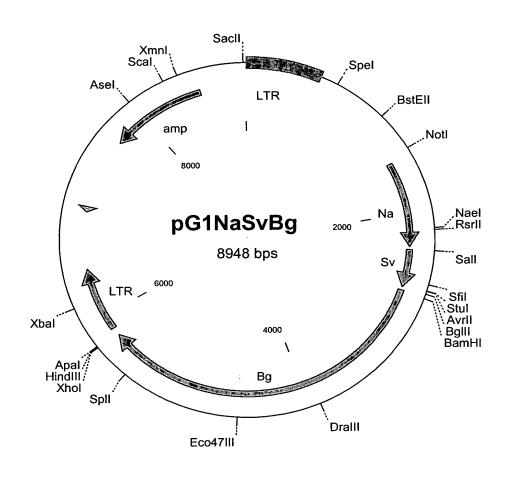






| APPROVED O.G. FIG. | | |
|--------------------|------------------|--|
| ηΥ | E. ASS .SUBCLASS | |
| DRAFTIMA | | |







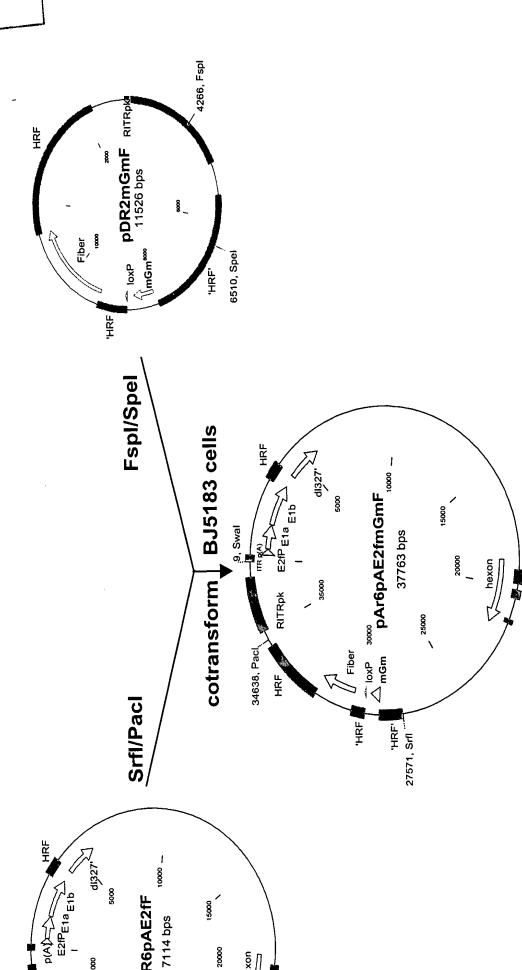


| 7878 | TTCCGGACAG | ACCTCAATAA | CTCTGTTTAC | CAGAACAGGA | GGTGAGCTTA |
|-------|------------|--------------------|--------------|------------|----------------|
| 7928 | GAAAACCCTT | ${\tt AGGGTATTAG}$ | GCCAAAGGCG | CAGCTACTGT | GGGGTTTATG |
| 7978 | AACAATTCAA | GCAACTCTAC | GGGCTATTCT | AATTCAGGTT | TCTCTAGCCG |
| 8028 | GGCTGCAGGA | ATTCGATGGC | CGCTACCTAC | AATGGCCCAC | GAGAGAAAGG |
| | | | | м а н | E R K |
| 8078 | CTAAGGTCCT | GAGGAGGATG | TGGCTGCAGA | ATTTACTTTT | CCTGGGCATT |
| | A K V | \mathbf{L} R R M | WLQ | N L L | F L G I |
| 8128 | GTGGTCTACA | GCCTCTCAGC | ACCCACCCGC | TCACCCATCA | CTGTCACCCG |
| | V V Y | S L S | A P T R | S P I | T V T |
| 8178 | GCCTTGGAAG | CATGTAGAGG | CCATCAAAGA | AGCCCTGAAC | CTCCTGGATG |
| | R P W K | H V E | A I K | E A L N | L L D |
| 8228 | ACATGCCTGT | CACATTGAAT | GAAGAGGTAG | AAGTCGTCTC | TAACGAGTTC |
| | D M P | V T L N | E E V | E V V | S N E F |
| 8278 | TCCTTCAAGA | AGCTAACATG | TGTGCAGACC | CGCCTGAAGA | TATTCGAGCA |
| | S F K | K L T | C V Q T | R L K | I F E |
| 83.28 | GGGTCTACGG | GGCAATTTCA | CCAAACTCAA | GGGCGCCTTG | AACATGACAG |
| | Q G L R | G N F | T K L | K G A L | N M T |
| 8378 | CCAGCTACTA | CCAGACATAC | TGCCCCCAA | CTCCGGAAAC | GGACTGTGAA |
| | A S Y | Y Q T Y | C P P | T P E | T D C E |
| 8428 | ACACAAGTTA | CCACCTATGC | GGATTTCATA | GACAGCCTTA | AAACCTTTCT |
| | T Q V | т т ч | A D F I | | K T F |
| 8478 | GACTGATATC | CCCTTTGAAT | GCAAAAAACC | AGTCCAAAAA | TGAGGAAGCC |
| | L T D I | PFE | C K K | P V Q K | ÷ |
| 8528 | CAGGCCAGCT | CTGAATCCAG | CTTCTCAGAC | TGCTGCTTTT | GTGCCTGCGT |
| 8578 | AATGAGCCAG | GAACTCGGAA | TTTCTGCCTT | AAAGGGACCA | AGAGATGTGG |
| 8628 | CACAGGTAGT | CGAATCAAGC | TTATCGATAC | CGTCGACCTC | GACTAGATAA |
| 8678 | | | ACGAAGTTAT | | 0000 |
| 8728 | | | GAAAGACGCA | | |
| 8778 | CGCATGAATC | AAGAGCTCCA | AGACATGGTT . | AACTTGCACC | AGTGCAAAA 8826 |



P.P. FIG. APPROVER DRAFTSMAT

FIGURE 18



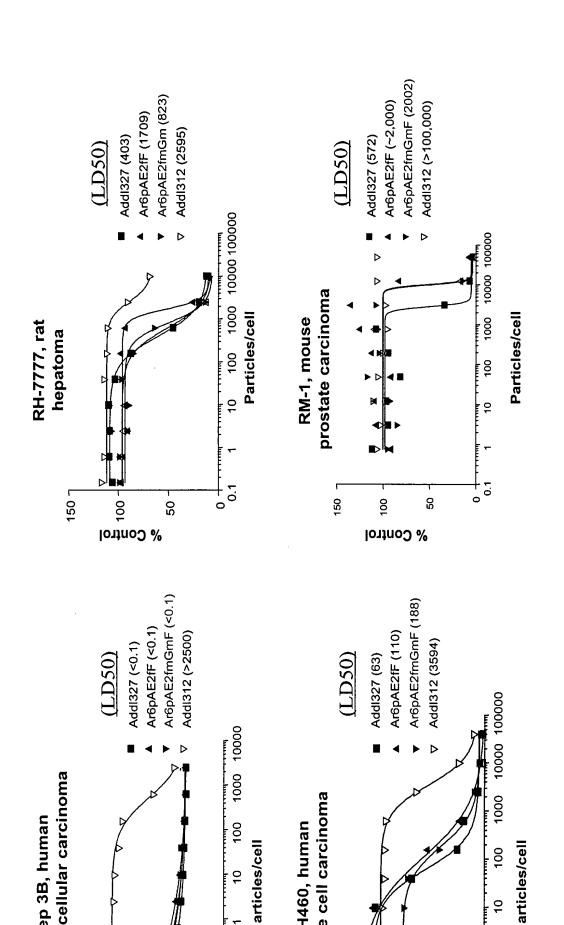
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APPROVED C.O. FIG.

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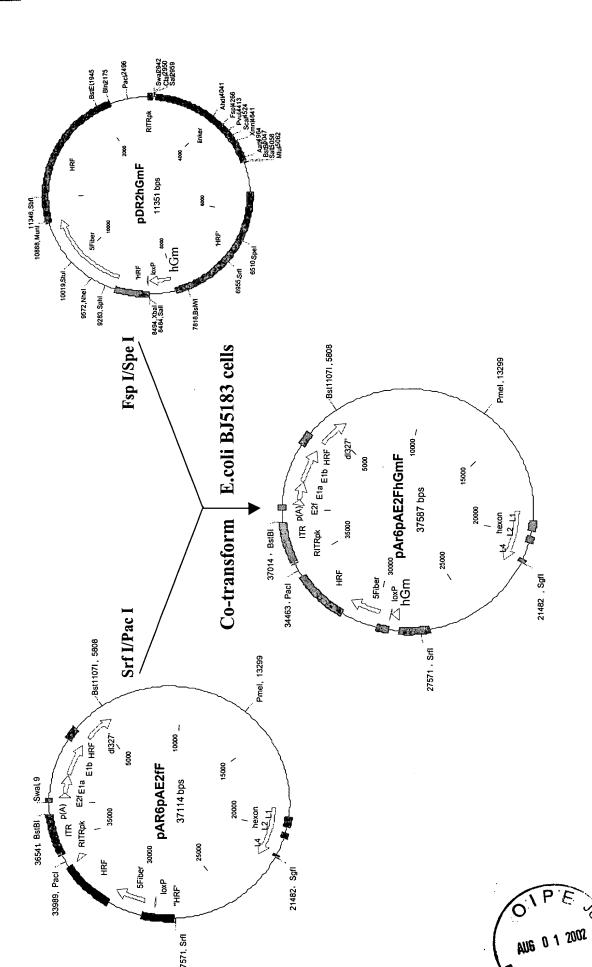




| 28536 | | AAGGCGCAGC TATTCTAATT | | | |
|----------------------------------|--------------------------|---|--------------------------|--------------------------|---------------------|
| 28586 | CTCTACGGGC | TATICIAATI | CAGGIIICIC | IAGGAICIII | CCGCAGCAGC |
| 28636 | | TGGCTGCAGA | | | |
| | М | W L Q | S L L | L L G T | V A C |
| 28686 | GCATCTCTGC | ACCCGCCCGC | TCGCCCAGCC | CCAGCACGCA | GCCCTGGGAG |
| | S I S | A P A R | S P S | P S T | Q P W E |
| 28736 | CATGTGAATG | CCATCCAGGA | GGCCCGGCGT | CTCCTGAACC | TGAGTAGAGA |
| | H V N | A I Q | E A R R | L L N | L S R |
| 28786 | CACTGCTGCT | GAGATGAATG | AAACAGTAGA | AGTCATCTCA | GAAATGTTTG |
| | D T A A | E M N | E T V | E V I S | E M F |
| 28836 | ACCTCCAGGA | GCCGACCTGC | CTACAGACCC | GCCTGGAGCT | GTACAAGCAG |
| | D L Q | E P T C | L Q T | R L E | L Y K Q |
| 28886 | GGCCTGCGGG G L R | GCAGCCTCAC G S L | CAAGCTCAAG T K L K | | CCATGATGGC T M M |
| 28936 | CAGCCACTAC | AAGCAGCACT | GCCCTCCAAC | CCCGGAAACT | TCCTGTGCAA |
| | A S H Y | K Q H | C P P | T P E T | S C A |
| 28986 | CCCAGACTAT | CACCTTTGAA | AGTTTCAAAG | AGAACCTGAA | GGACTTTCTG |
| | T Q T | I T F E | S F K | E N L | K D F L |
| 29036 | CTTGTCATCC | CCTTTGACTG | CTGGGAGCCA | GTCCAGGAGT | GAGTCGACAA |
| | L V I | P F D | C W E P | V Q E | - |
| 29086 29136 29186 29236 | GGACGGAATT CCGAGCAACA | ACTTCGTATA ATTACAGAGC GCGCATGAAT GGGGTATCTT | AGCGCCTGCT CAAGAGCTCC | AGAAAGACGC AAGACATGGT | AGGGCAGCGG |



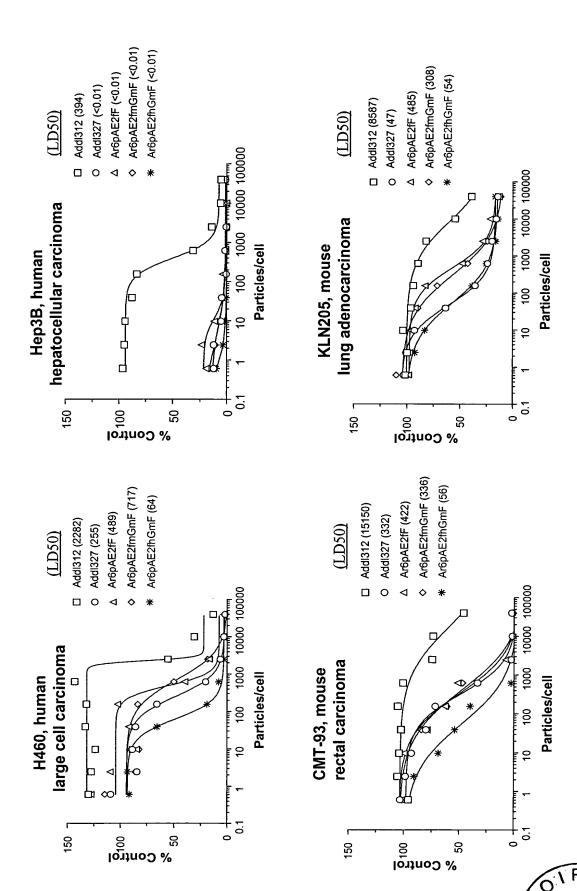
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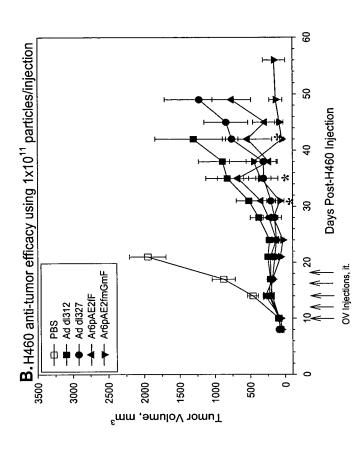
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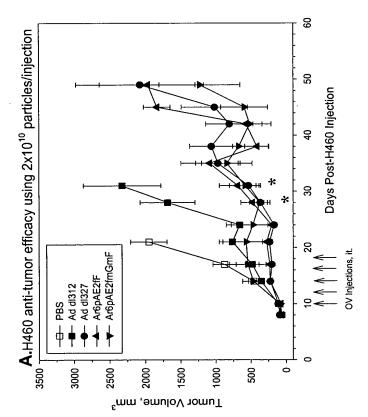
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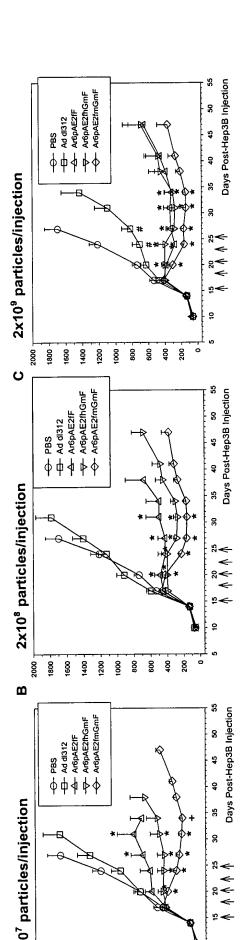




APPROVED C.C.FIG.

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APPODVED C.A. FIG.

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FIGURE 25

Primer1

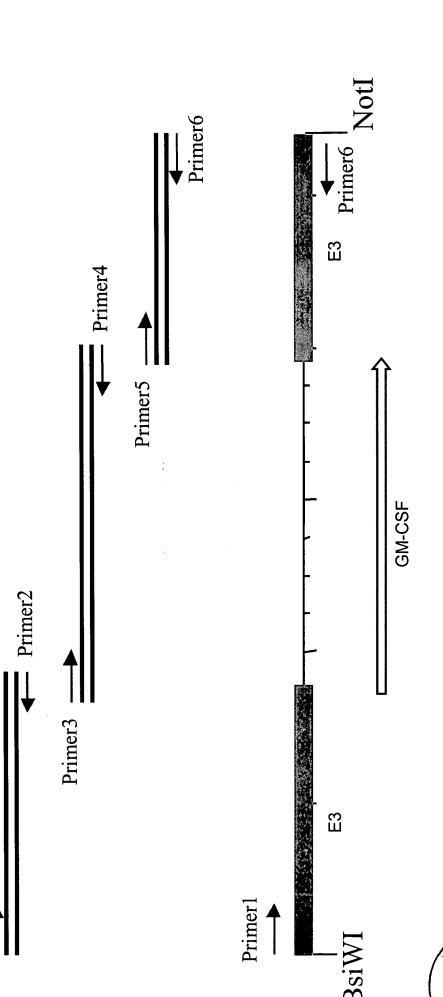




FIGURE 26A

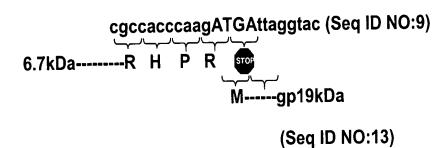
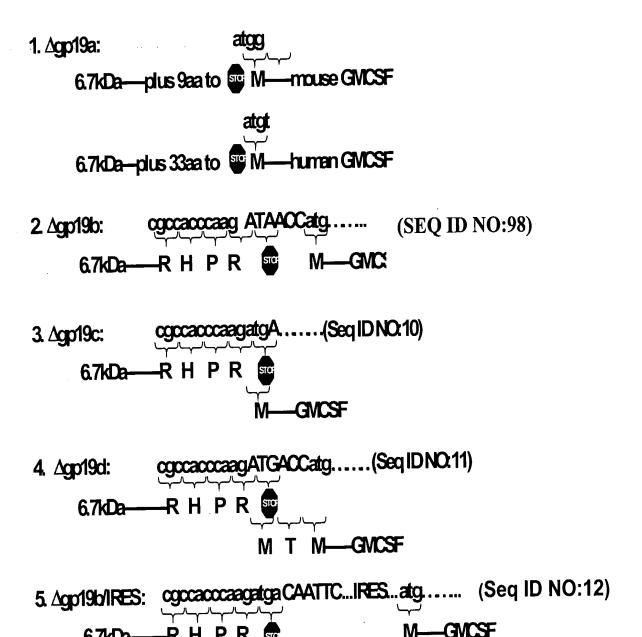


FIGURE 26B

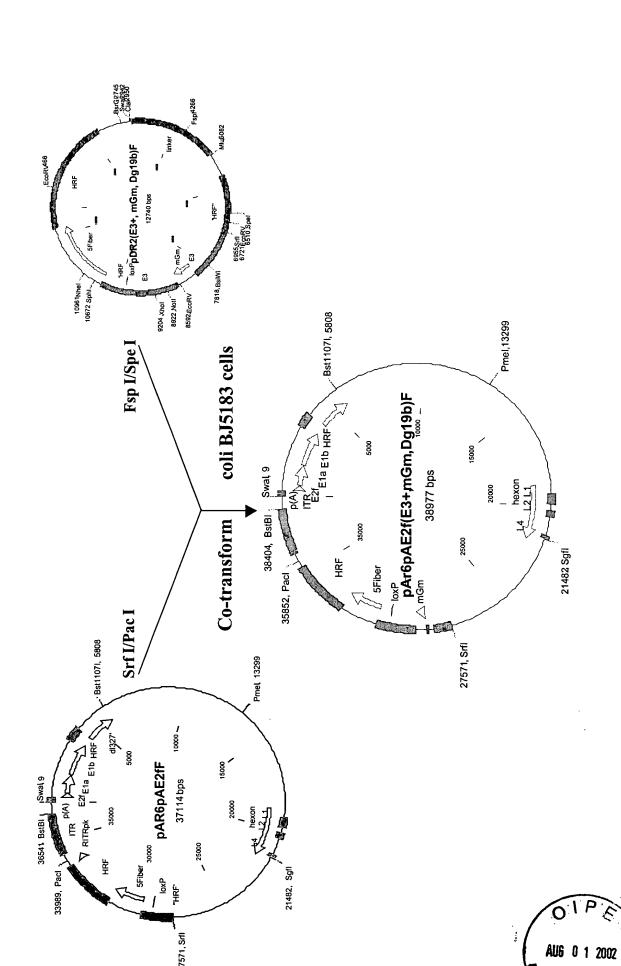


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ACPRIOVED C.G. FIG.

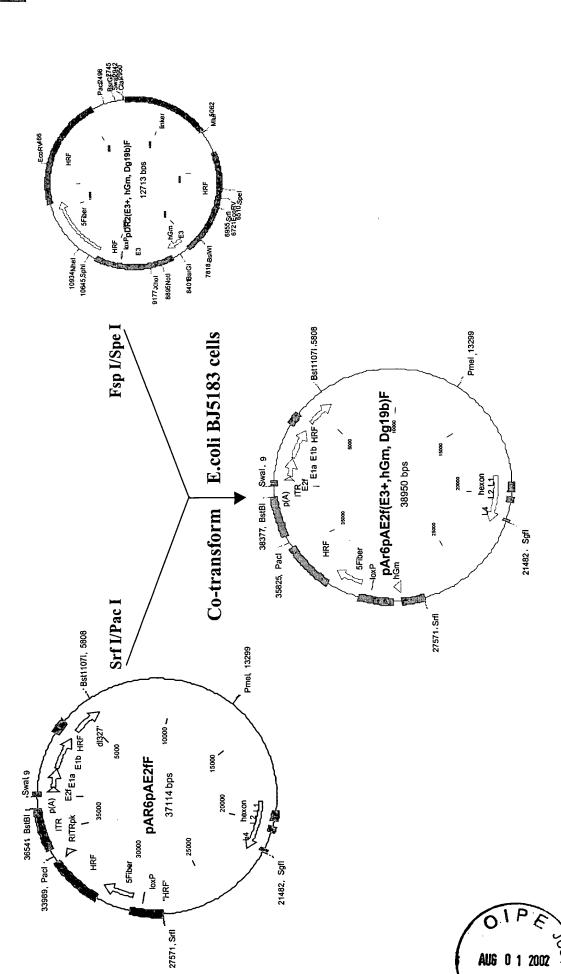
DY CLASS SUBCLASS DRAFTSMAN

FIGURE 27A



AFPROVED C.G. FIG.
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FIGURE 27B

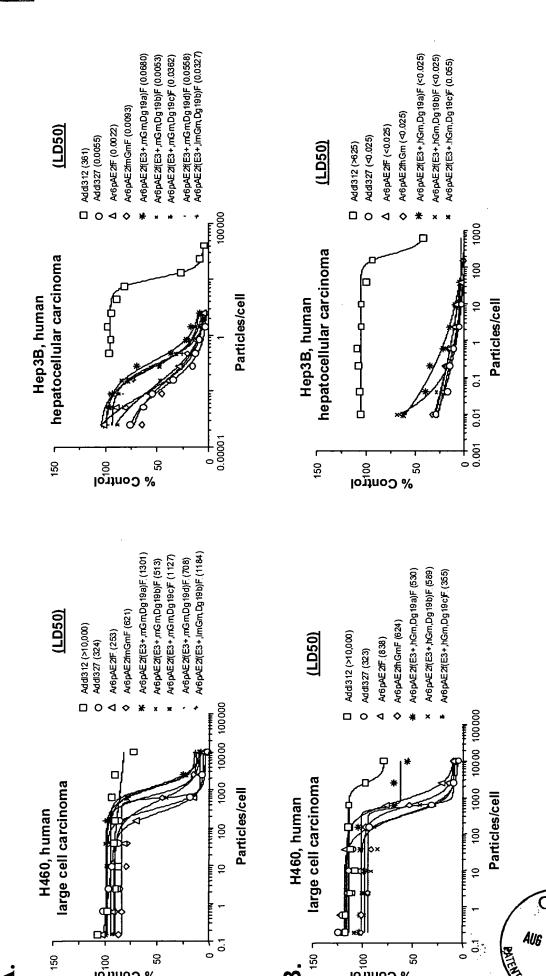


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O.G. FIG.

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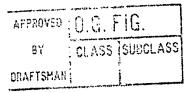
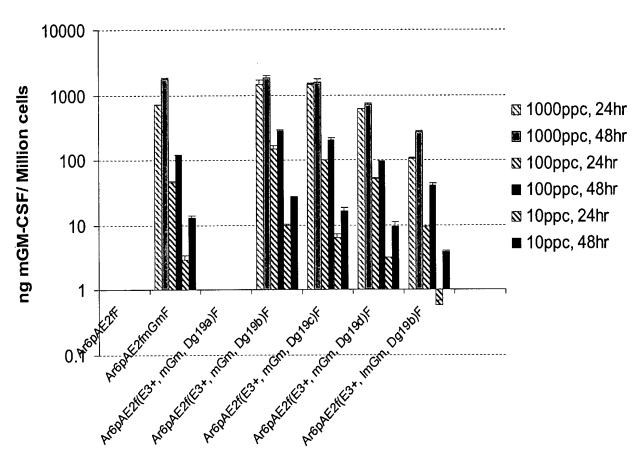


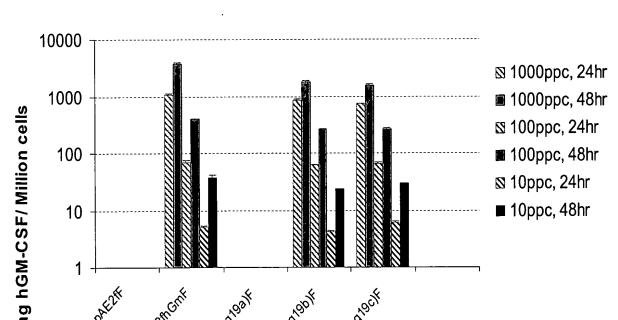


Figure 29

a. Mouse GM-CSF expression in H460 cells

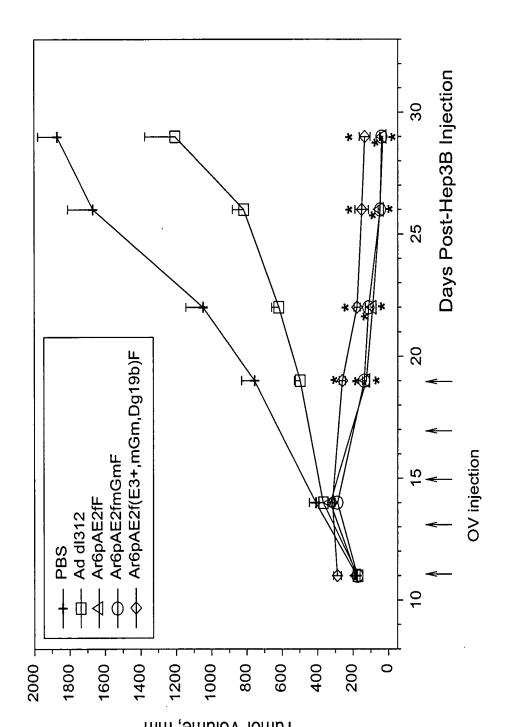


b. Human GM-CSF expression in H460 cells

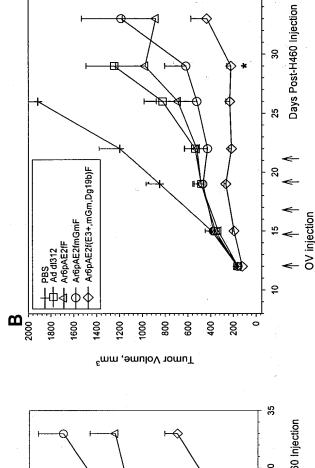


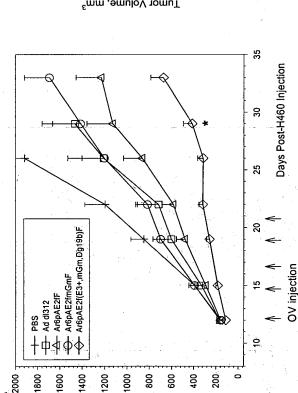
| APPROVED O.G. FIG. | | |
|--------------------|-------|----------|
| δY | CLASS | SUBCLASS |
| DRAFTSMAH | | |

Figure 30



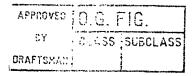
-igure 31





Tumor Volume, mm³





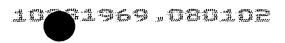
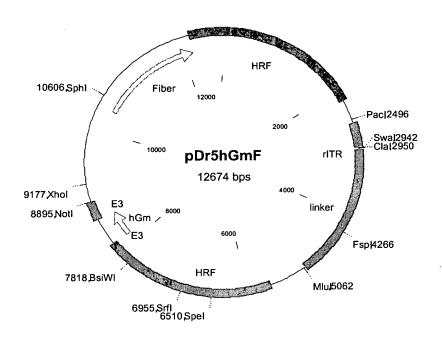
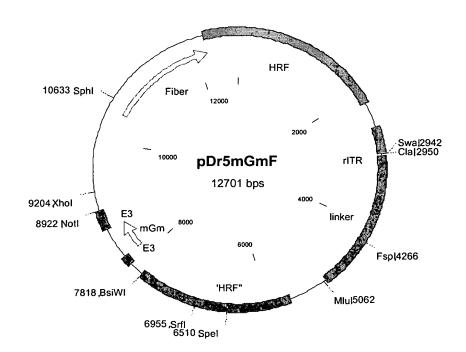


Figure 32

A. pDr5hGmF



B. pDr5mGmF





APPROVED G.G. FIG.

BY CLASS SUDCLASS

BRAFTSMAN

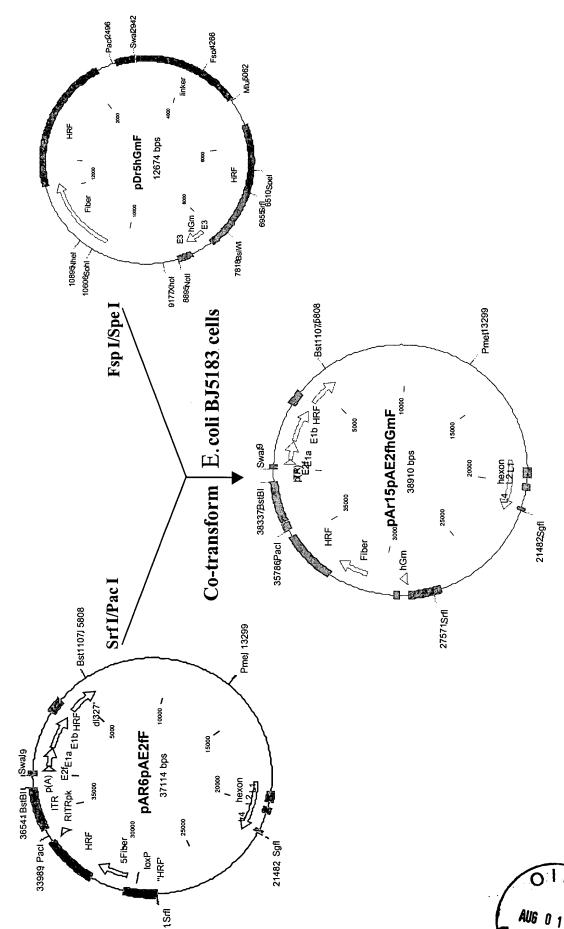


Figure 33

DY CLASS SUBCLASS

Figure 34

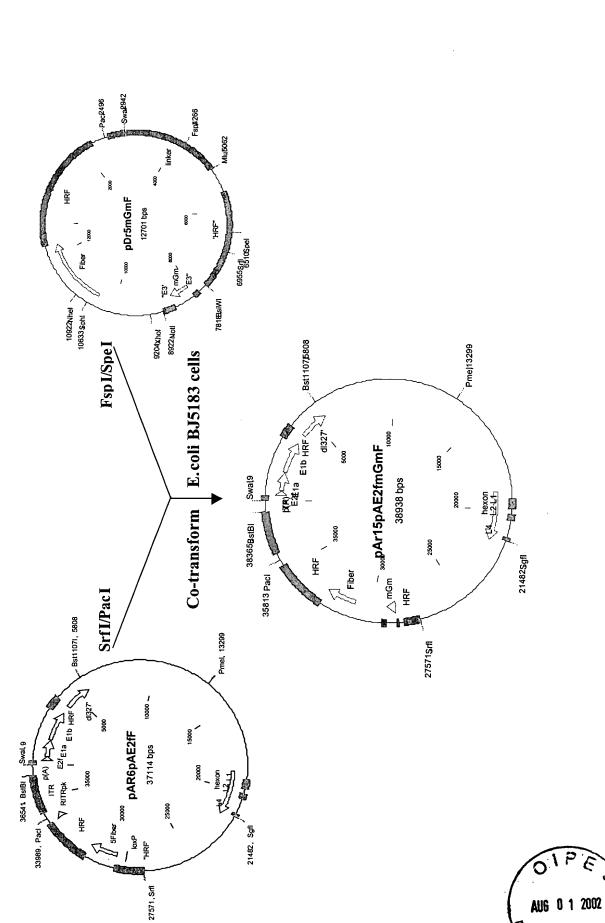
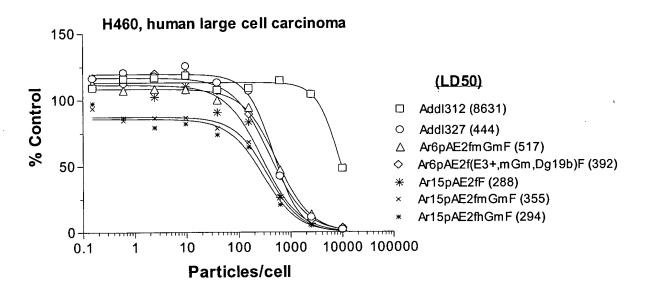
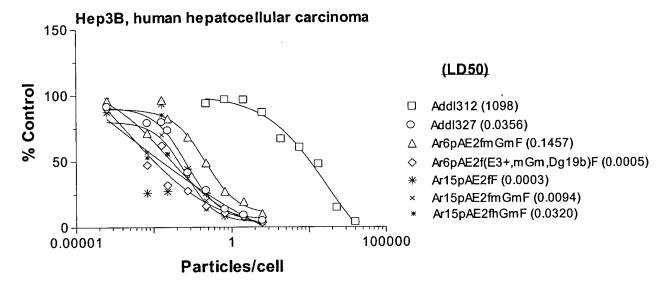


Figure 35

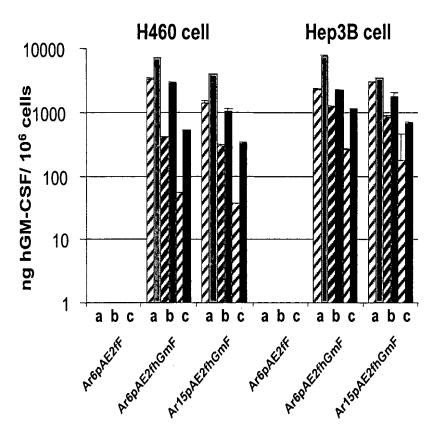


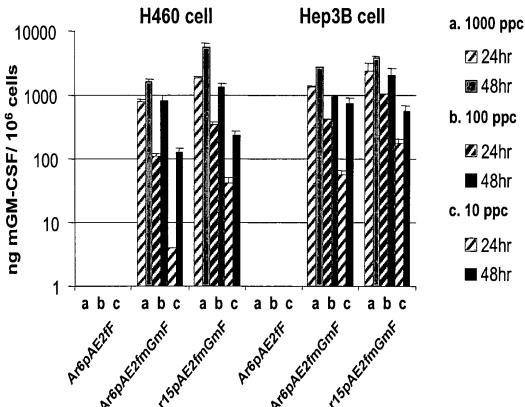


APPROVED . O.G. FIG.

BY CLASS SUBCLASS
DRAFTSMAIL

Figure 36





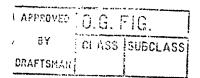
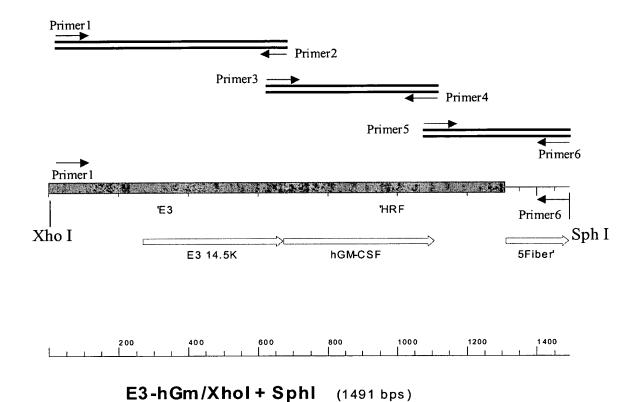




Figure 37



AUG 0 1 2002 43

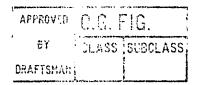




Figure 38A

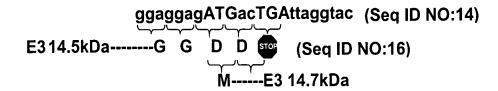
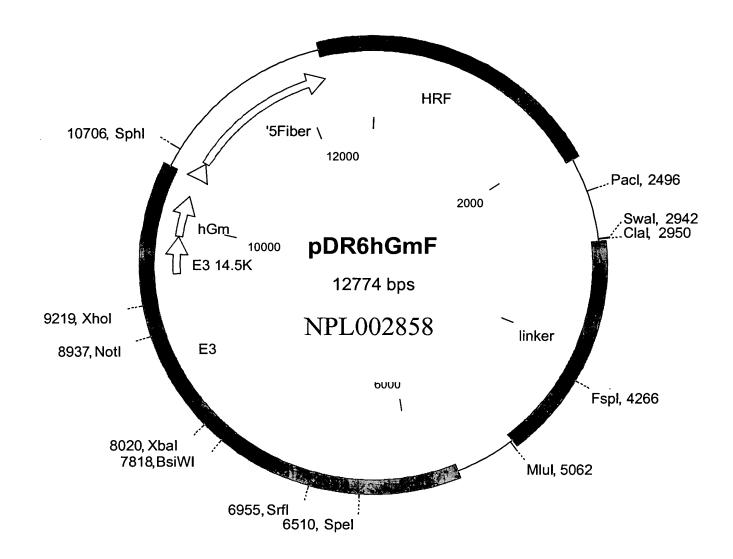


Figure 38B

ggaggagacgacTGACC atg,...... (Seq ID NO:15)
E3 14.5kDa------G G D D M------GMCSF

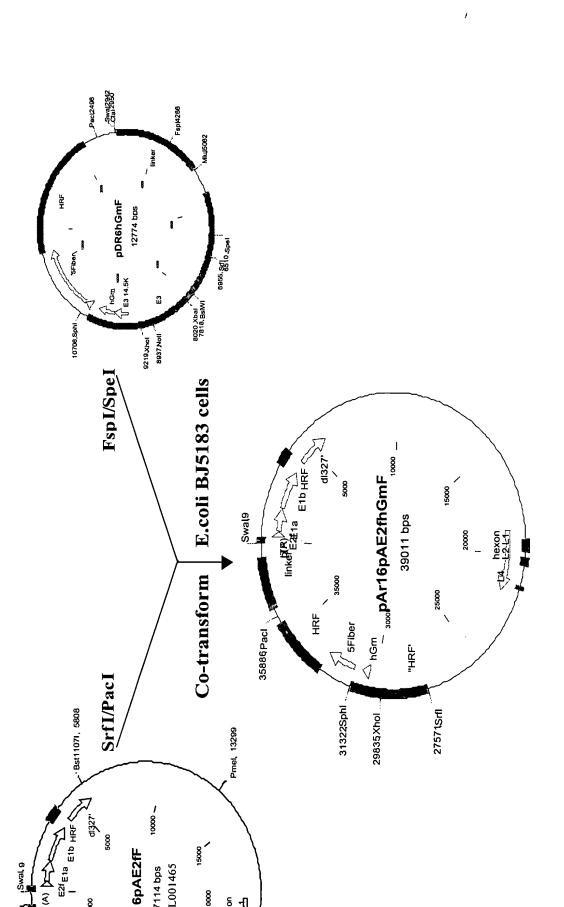
Figure 39



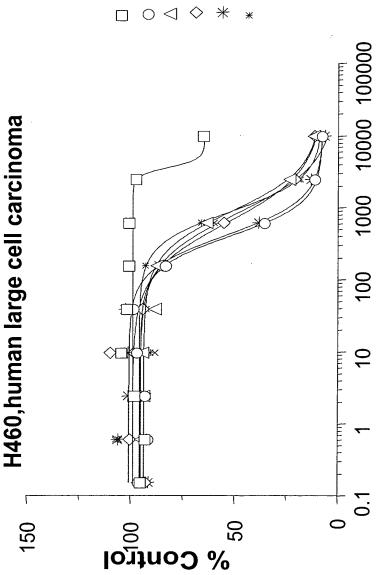
APPROVED C.G. FIG.

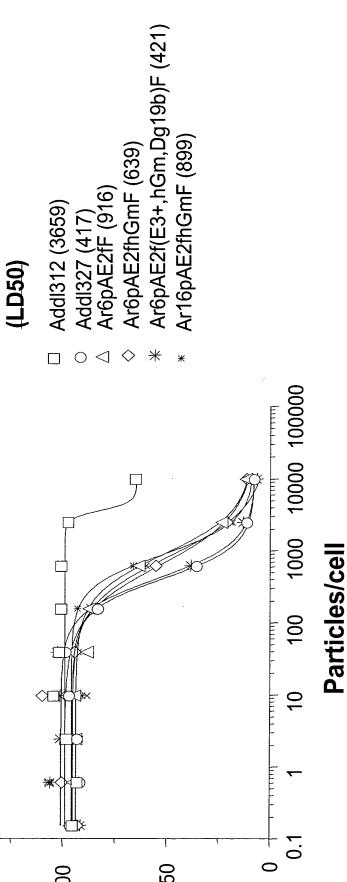
BY CLASS SUBCLASS ORAFISMAN

Figure 40



G.G. FIG. APPROVEG CLASS θY DRAFTSHAH







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1046 THE WASHA 141 1423 Alebodinon xeil keil den A 360 1988 280 □ 1000 ppc ☑ 100 ppc ⊑ 10ppc 10-100 10000 1000

ng/10° cells/24 hrs

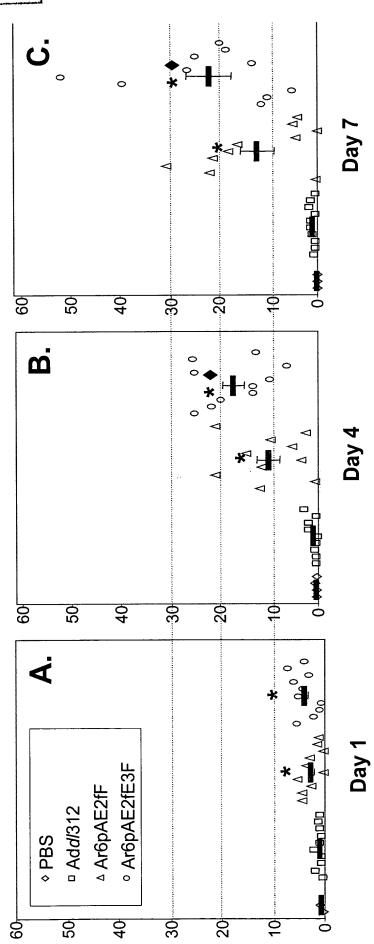
Figure 42

AFPROVED G.G. FIG.

BY CLASS SUBCLASS

DRAFTSMAN

Figure 43



Suez evincod noxen %

p<0.05 between Ar6pAE2fF or Ar6pAE2fE3F and Add/312, ANOVA p<0.05 between Ar6pAE2fF and Ar6pAE2fE3F vectors, ANOVA

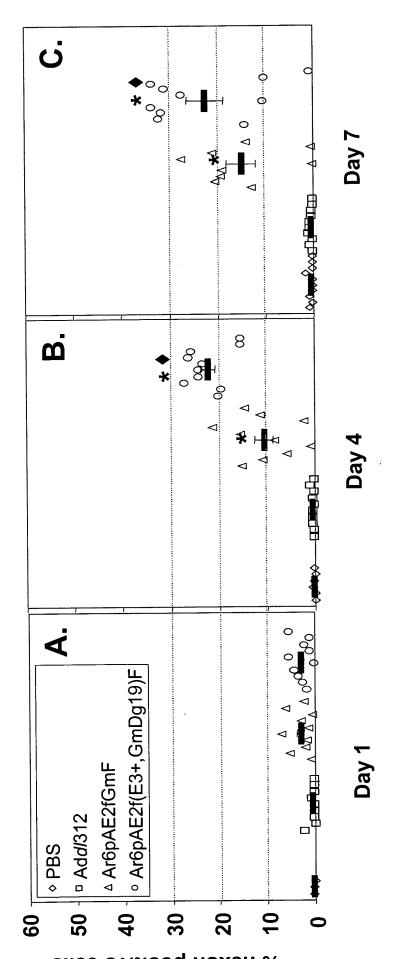


APPROVED O.G. FIG.

BY CLASS SUBCLASS

DRAFTSMAN

Figure 44



p<0.05 between Ar6pAE2fhGmF or Ar6pAE2f(E3+,hGm,Dg19)F and Add/312, ANOVA p<0.05 between Ar6pAE2fhGmF and Ar6pAE2f(E3+,hGm,Dg19)F vectors, ANOVA



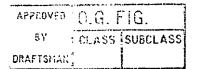
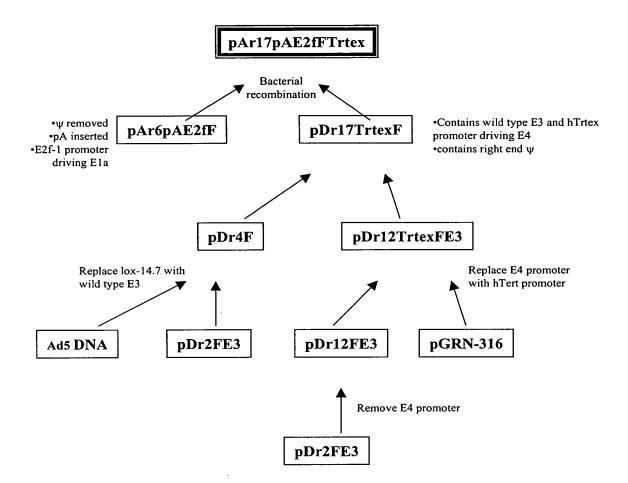




Figure 45





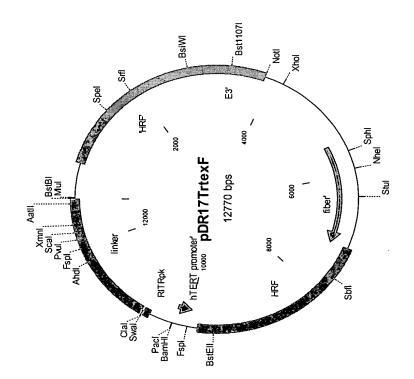
Pmel

APPROVED O.G. FIG.

BY MASS SUBCLASS

DRAFTSMAN:

Figure 46





APPROVED 1 (). G. FIG.

BY CLASS SUBCLASS

DRAFTSMALL



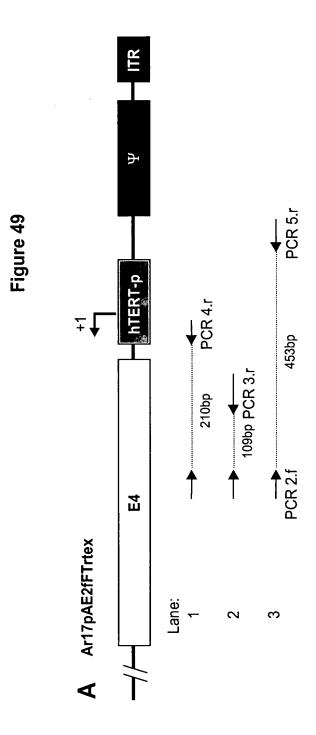
| 35351 | agtgctaaaa | agcgaccgaa | atagcccggg | ggaatacata | cccgcaggcg |
|--------|------------|------------|-------------|-------------|------------|
| 35401 | tagagacaac | attacagccc | ccataggagg | tataacaaaa | ttaataggag |
| 35451 | agaaaaacac | ataaacacct | gaaaaaccct | cctgcctagg | caaaatagca |
| 35501 | ccctcccgct | ccagaacaac | atacagcgct | tcacagcggc | agcctaacag |
| 35551 | tcagccttac | cagtaaaaaa | gaaaacctat | taaaaaaaca | ccactcggat |
| 35601 | caattcgcgg | gggtggccgg | ggccagggct | tcccacgtgc | gcagcaggac |
| 35651 | gcagcgctgc | ctgaaactcg | cgccgcgagg | agagggcggg | gccgcggaaa |
| 35701 | ggaagggag | gggctgggag | ggcccggagg | gggctgggcc | ggggacccgg |
| 35751 | gaggggtcgg | gacggggcgg | ggtccgcgcg | gaggaggcgg | agctggaagg |
| 35801 | tgaaggggca | ggacgggtgc | ccgggtcccc | agtccctccg | ccacgtgggg |
| 35851. | ctaggatcct | taattaagaa | ttctacaatt | cccaacacat | acaagttact |
| 35901 | ccgccctaaa | accctgggcg | agtctccacg. | taaacggtca | aagtccccgc |
| 35951 | ggccctagac | aaatattacg | cgctatgagt | aacacaaaat | tattcagatt |
| 36001 | tcacttcctc | ttattcagtt | ttcccgcgaa | aatggccaaa | tcttactcgg |
| 36051 | ttacgcccaa | atttactaca | acatccgcct | aaaaccgcgc | gaaaattgtc |
| 36101 | acttcctgtg | tacaccggcg | cacaccaaaa | acgtcacttt | tgccacatcc |
| 36151 | gtcgcttaca | tgtgttccgc | cacacttgca | acatcacact. | tccgccacac |
| 36201 | tactacgtca | cccgccccgt | tcccacgccc | cgcgccacgt | cacaaactcc |
| 36251 | accccctcat | tatcatattg | gcttcaatcc | aaaataaggt | atattattga |
| 36301 | tgatg | | | | |



Packaging signal E pox 2 x SP1 33 8 x AP2 promoter hTrtex **E4** 3 x SP1 +E3 wild type E box MBF-1 3xSP1 CAAT (E2F-E2F)2 NF-kB SP1 Ela promoter E2F-1 ŵ



AFPROVED C.G. FIG.
BY CLASS SUBCLASS
DRAFTSMAN





BY CLASS SUBCLASS

Figure 50

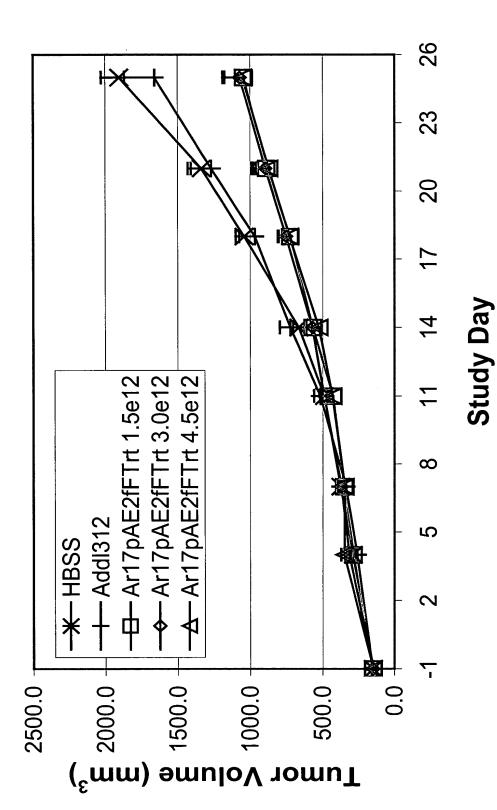
| GAAAACCTAT | | TCCCACGIGC | | GCCGCGGAAA | | GGAAGGGTTC | GCAGGACCGG | GAATTCTACA | |
|---|-------|---|---|---|---|---|---|---|--|
| CAGTAAAAAA | | GGCCAGGGCT | | <u>AGAGGGCGGG</u> | | CGGGGACCCG | AGGTGAAGGG | CCTTAATTAA | |
| TCAGCCTTAC | ì | GGGTGGCCGG | ı | CGCCGCGAGG | 1 | GGGCTGGGC | CGGAGCTGGA | GGGCTAGGAT | |
| AGCCTAACAG | ı | CAATTCGCGG | | CTGAAA@TCG | | TGGCCCGGAA | GCGGACGAGG | CCGCCACGIG | |
| ATACAGCGCT TCACAGCGGC AGCCTAACAG TCAGCCTTAC CAGTAAAAAA GAAAACCTAT | .P1 | TAAAAAAACA CCACTCGGAT CAATTCGCGG GGGTGGCCGG GGCCAGGGCT TCCCACGTGC | 1 | GCAGCAGGAC GCAGCGCTGC CTGAAA@TCG CGCCGCGAGG AGAGGGCGGG GCCGCGGAAA | | AGGAACGGGA CGGGCTGGGA TGGCCCGGAA GGGGCTGGGC CGGGGACCCG GGAAGGGTTC | GGGACGGGGC GGGGTTCCGC GCGGACGAGG CGGAGCTGGA AGGTGAAGGG GCAGGACCGG | TGCCCGGGTC CCCAGTCCCT CCGCCACGTG GGGCTAGGAT CCTTAATTAA GAATTCTACA | |
| ATACAGCGCT | ExtP1 | TAAAAAAACA | | GCAGCAGGAC | | AGGAACGGGA | GGGACGGGC | TGCCCGGGTC | |
| 35521 | | 35581 | | 35641 | | 35701 | 35761 | 35821 | |

35881 ATTCCCAACA CATACAAGTT ACTCCGCCCT AAAACCCTGG GCG



DRAFTSMAN

Figure 51



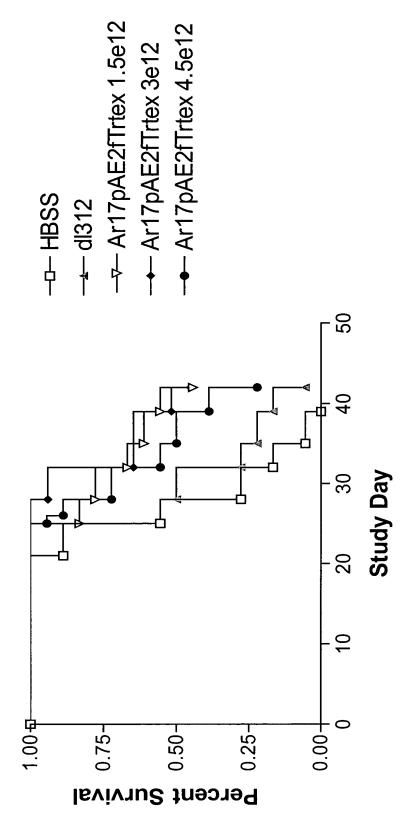


AFPROVED O.G. FIG.

BY CLASS SUBCLASS

DRAFTSMAN

Figure 52

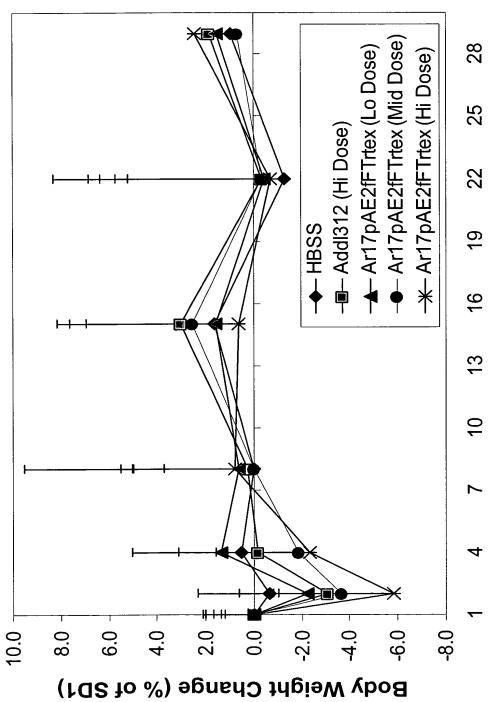




APPROVED O.G. FIG.

BY GLASS SUBCLASS DRAFTSMAN







कर्तुः स्टब्स्

Figure 54

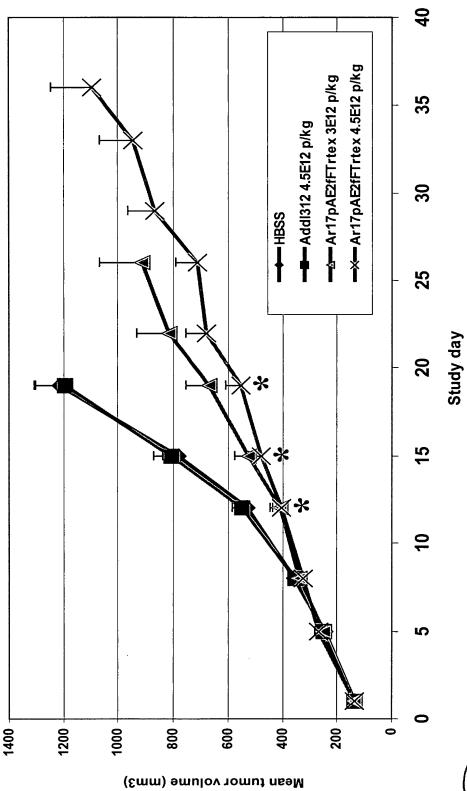




Figure 55

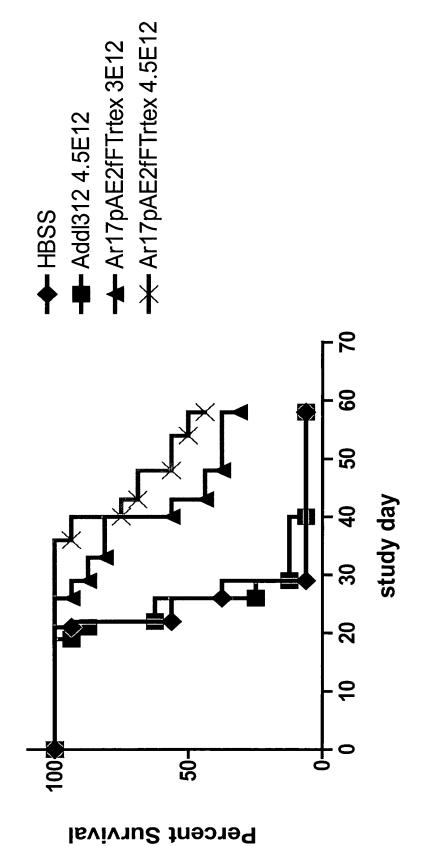
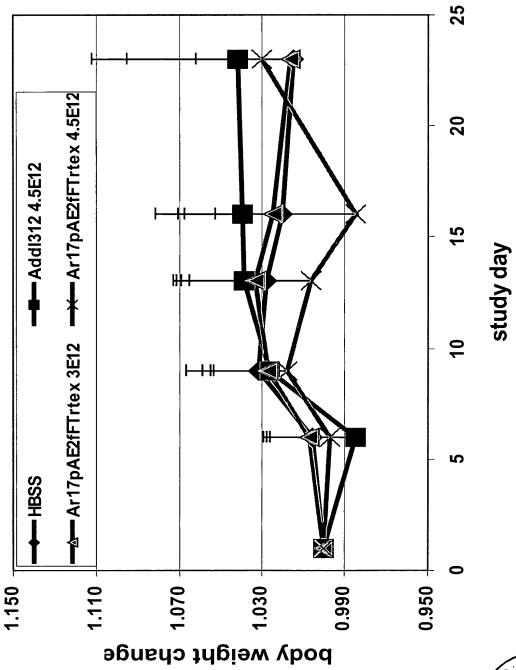




Figure 56



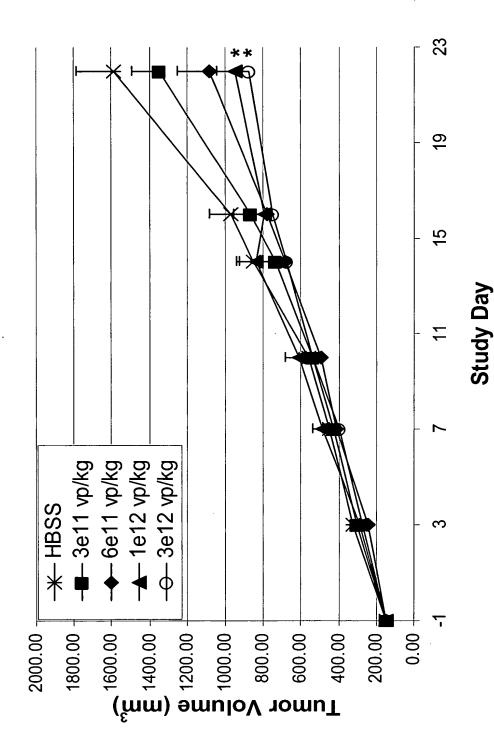


APPROVED O.G. FIG.

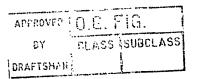
OY CLASS SUBCLASS

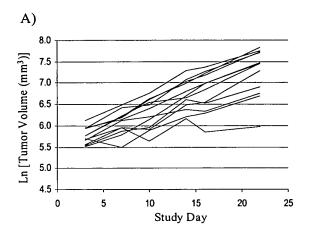
DRAFTSMAN

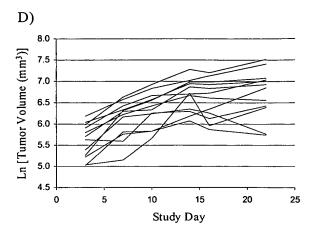
Figure 57

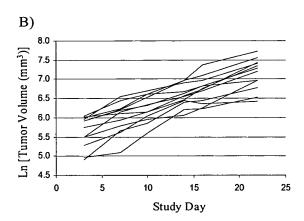


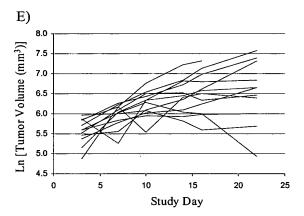


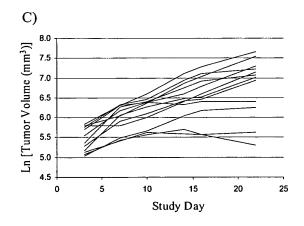














| | CEVORTRA | D.G. FIG. | |
|---|-----------|-----------------|--|
| ì | BY | GLASS (SUBCLASS | |
| | DRAFTSMAN | | |

-J-HBSS
—— Ar17pAE2fFTrtex 3.0E+11
—— Ar17pAE2fFTrtex 6.0E+11
—— Ar17pAE2fFTrtex 1.0E+12
—— Ar17pAE2fFTrtex 3.0E+12

20

9

Study Day

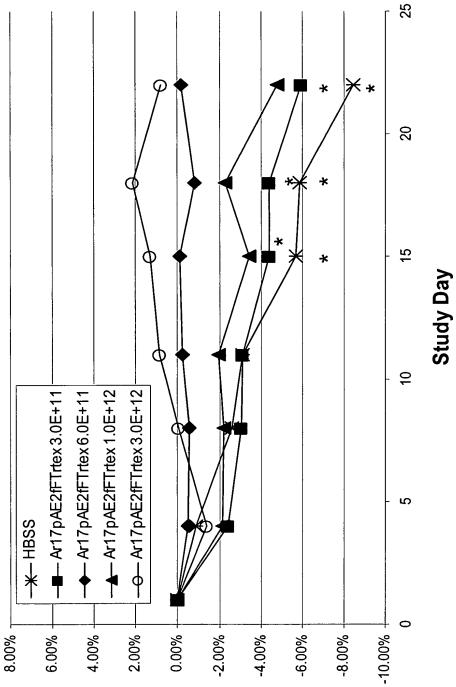
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Percent Survival

75-

50-

25-

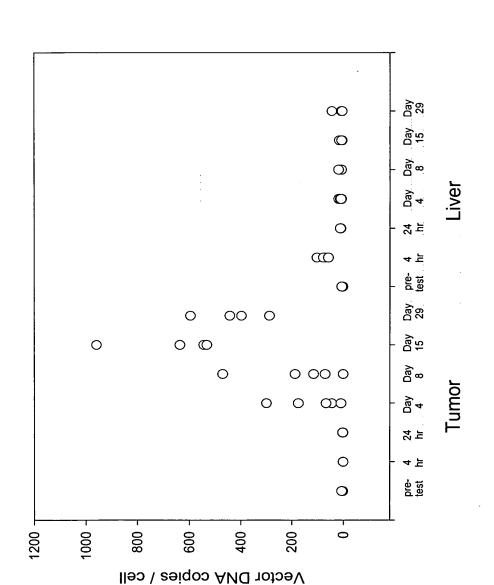


% Body weight change vs SD1

Figure 60



Figure 61

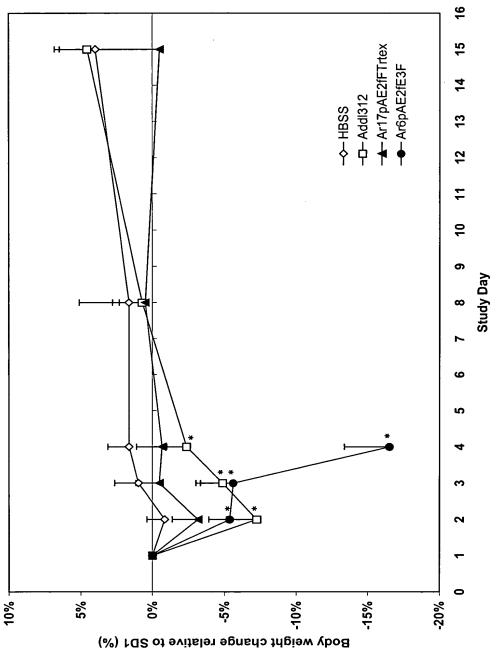


APPROVED O.G. FIG.

BY CLASS SUDCLASS

DRAFTSMAN

Figure 62





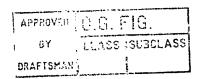
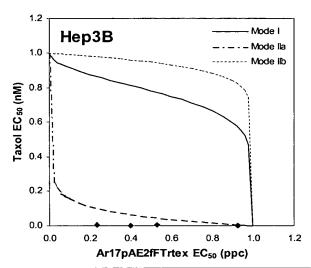
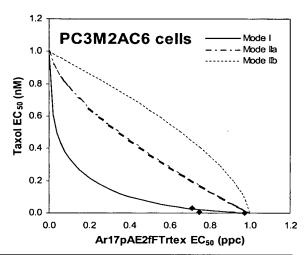


FIGURE 63



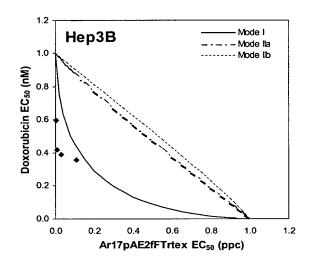


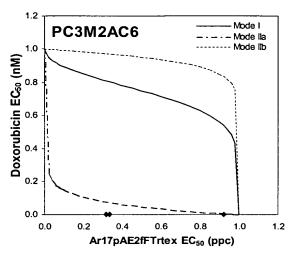
| MR (ppc/nM) | Virus EC ₅₀ ^b | Chemo EC ₅₀ ^b | Effect |
|-------------|--|--|---------|
| Virus alone | 1 | 0 | - |
| Chemo alone | 0 | 1 | - |
| 8.3e-05 | 0.23 | 0.0043 | synergy |
| 3.3e-04 | 0.53 | 0.0024 | synergy |
| 1.3e-03 | 0.40 | 0.00046 | synergy |
| 5.3e-03 | 0.93 | 0.00027 | synergy |

| MR (ppc/nM) | Virus EC ₅₀ ^b | Chemo EC ₅₀ ^b | Effect |
|-------------|--|--|------------|
| Virus alone | 1 | 0 | - |
| Chemo alone | 0 | 1 | - |
| 0.02 | 3.4 | 1.3 | antagonism |
| 0.2 | 0.71 | 0.028 | synergy |
| 2 | 0.75 | 0.003 | synergy |
| 20 | 0.97 | 0.0004 | synergy |





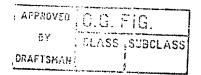


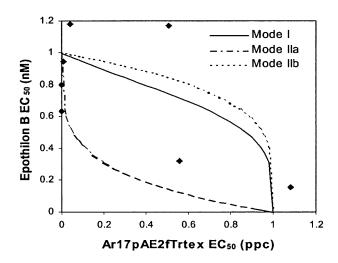


| MR (ppc/nM) | Virus EC ₅₀ ^b | Chemo EC ₅₀ ^b | Effect |
|-------------|--|--|---------|
| Virus alone | 1 | 0 | - |
| Chemo alone | 0 | 1 | - |
| 1.3e-05 | 0.0028 | 0.60 | synergy |
| 5.0e-05 | 0.0078 | 0.42 | synergy |
| 2.0e-04 | 0.029 | 0.39 | synergy |
| 8.0e-04 | 0.11 | 0.36 | synergy |

| MR (ppc/nM) | Virus EC ₅₀ ^b | Chemo EC₅₀ ^b | Effect |
|-------------|--|----------------------------|------------|
| Virus alone | 1 | 0 | - |
| Chemo alone | 0 | 1 | - |
| 1 | 2.2 | 0.015 | antagonism |
| 10 | 0.92 | 6.1e-4 | synergy |
| 100 | 0.34 | 2.2e-5 | synergy |
| 1000 | 0.32 | 2.1e-6 | synergy |





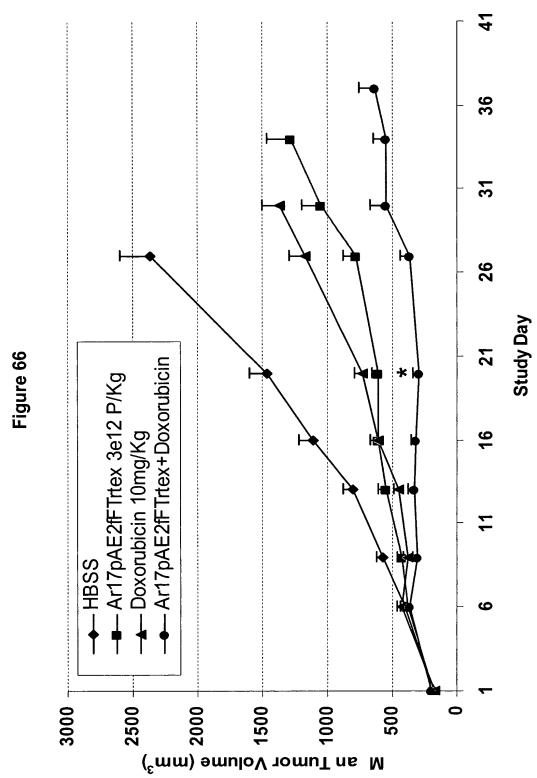


| | Virus EC ₅₀ ^b | Chemo EC₅o ^b | Effect |
|-------------|--|----------------------------|------------|
| Virus alone | 1 | 0 | - |
| Chemo alone | 0 | 1 | - |
| 3.1e-06 | 0.00045 | 0.63 | synergy |
| 1.3e-05 | 0.0018 | 0.80 | synergy |
| 5.0e-05 | 0.0084 | 0.95 | synergy |
| 2.0e-04 | 0.042 | 1.2 | antagonism |
| 8.0e-04 | 0.18 | 1.6 | antagonism |
| 3.2e-03 | 0.51 | 1.2 | antagonism |
| 1.3e-02 | 0.56 | 0.32 | additivity |
| 5.1e-02 | 1.1 | 0.06 | antagonism |



APPROVID C.G. FIG.

SY PLASS SUBCLASS
DRAFTSMAN.

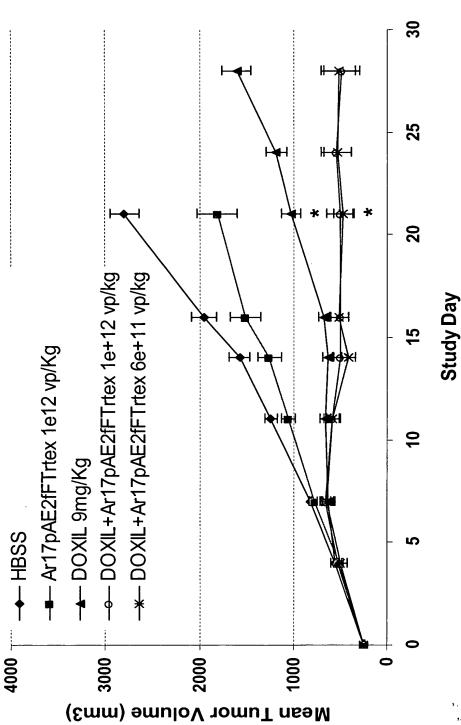




APPROVED C.O. FIG.

BY FLASS SUBCLASS

CRAFTARA





APPROVED D.G. FIG.

BY CLASS SUCCLASS

DRAFTSHAN

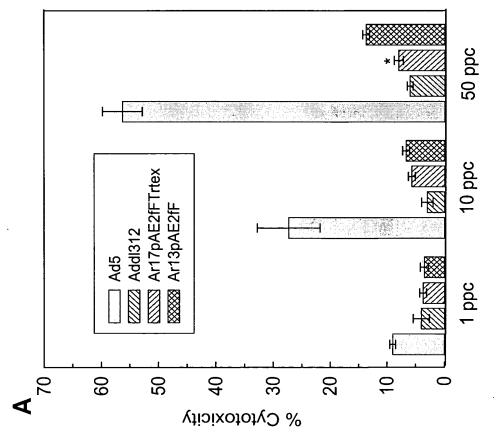
So Cytotoxicity

Cytotoxicity

Cytotoxicity

Cytotoxicity

M 1 ppc 10 ppc 50 ppc







Ad35-Based Oncolytic Vectors

